



# for True Innovation in IOL Technology

IOL implants are one of the most successful global surgical procedures, with an estimated 12 to 15 million IOLs inserted each year. This number is projected to grow considerably over the next 20 years due to the aging population and, most importantly, patient demand for higher quality vision.

Lenstec's Softec HD implant was designed to meet these higher patient expectations in a micro-incision lens that requires no instrumentation or skill changes by the surgeon and offers the added benefit of Precision Series labeling for consistently improved outcomes.

*"The Softec HD allows surgeons to provide refractive sensibility for all their IOL patients."*

## Softec HD

High Definition Micro Incision Aspheric IOL with Precision Diopters in .25 Diopter Increments from +18.0 to +25.0

Micro Injection System via 1.6mm cartridge

.25 Diopter Increments



Optic Size:	5.75mm
Optic Type:	Equal Conic Bi-aspheric
Length:	12.00mm
Haptic Style:	Modified C
Angulation:	0 Degrees
Construction:	1 Piece
Positioning Holes:	0
Optic Material:	Acrylic (26% Water Content)
A Constant:	118.0
A/C Depth:	5.10mm
Diopter Increments:	
Whole	+5.0 to +36.0
Half	+10.5 to +29.5
0.25	+18.0 to +25.0

U.S. Patent No. 20060279697 A1 December 14, 2006

The Softec HD is not currently FDA approved and is not for sale in the US.

1. Holladay JT, et al. A new intraocular lens design to reduce spherical aberration of pseudophakic eyes. J Refract Surg. 2002 Nov-Dec;16 (6):683-91.
2. Altmann GE, Nichamin LD, Lane SS, Pepose JS. Optical performance of 3 intraocular lens designs in the presence of decentration. J Cataract Refract Surg. 2005 Mar;31(3):574-85
3. Bellucci R, Morselli S, Piers P. Comparison of wavefront aberrations and optical quality of eyes implanted with five different intraocular lenses. J Refract Surg. 2004 Jul-Aug 20(4):297-306.
4. Packer M, Fine IH, Hoffman RS, Piers PA. Improved functional vision with a modified prolate intraocular lens. J Cataract Refract Surg. 2004 May;30(5):986-92.

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PB10 Rev 1

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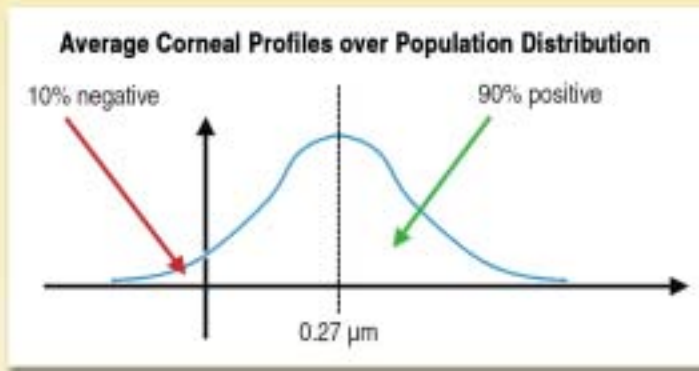


# World's Most Accurate Aspheric IOL

# high definition performance in all lighting conditions

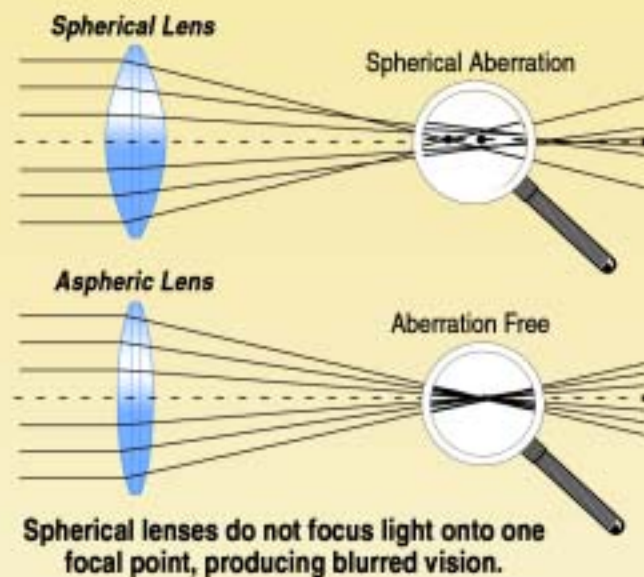
## Spherical Aberration and the Human Eye

The spherical aberration profile of the natural human lens is complex, and changes with age and during accommodation. In contrast, the cornea retains a stable amount of spherical aberration throughout life, with approximately 90% of the population with positive asphericity and 10% having negative asphericity.<sup>(1)</sup>

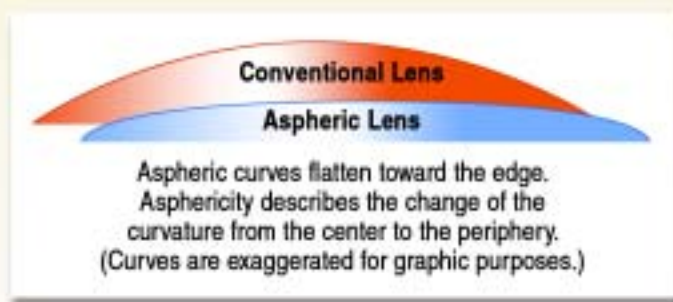


## IOL Optics: Aspheric vs Spherical

There are various conditions in which one IOL design will perform better than another. In general a conventional spherical IOL can worsen the patient's own corneal aberration. Light that hits the lens on the periphery will be refracted more than the light that hits the center of the optic, producing blurred vision. In contrast, we can improve potential visual outcomes by using a lens with no inherent spherical aberration.



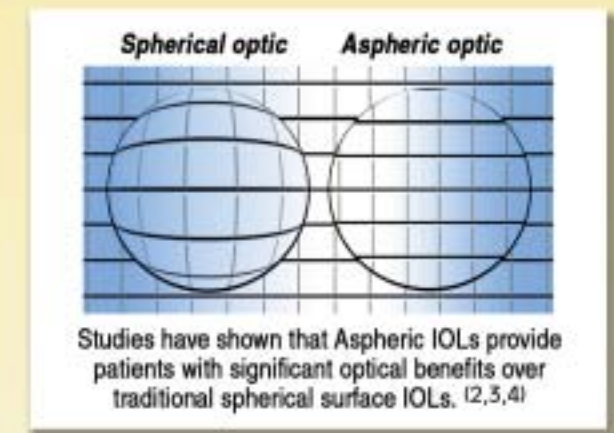
To have sharp vision — to focus all the light on one point — the curvature of the periphery has to decrease while the central curvature remains the same. These non-spherical, closer-to-ideal IOLs are called aspheric lenses. Aspheric optics are complex to manufacture (vs. conventional spherical IOLs), but the benefits are reduced spherical aberrations and clearer, sharper vision. In fact, studies have shown that aspheric IOLs can produce enhanced visual outcomes in both objective (point-spread function) and subjective (enhanced vibrancy of colors) measures.<sup>(2,3,4)</sup>



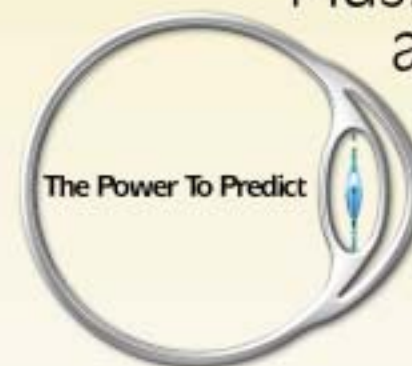
## Softec HD Aspheric Micro-Incision IOL

The Softec HD addresses the issue of spherical aberration inherent in conventional monofocal spherical IOLs by adjusting the optic with a patented design on both the anterior and posterior surfaces. The curvature of the lens element is calculated and shaped to achieve the ideal single point of focus. This enhanced aspheric optic has minimal spherical aberrations and results in sharper vision for the patient.

- Enhances contrast sensitivity
- Addresses both negative and positive corneal aberration profiles
- Forgiving of tilt or decentration
- Increase small target sensitivity
- No skills or instrumentation change



## Plus... Unparalleled Precision and Predictability



### The ONLY Aspheric IOL with Precision Series labeling

Technological advances have led to vastly improved biometry, which in turn demands more accurate IOL power control. Defocus due to inaccurate IOL labeling is a greater contributor to poor vision quality than spherical aberrations. In response to this need, Lenstec has developed proprietary manufacturing technology which enables super-accurate lens power labeling. This precision manufacturing allows the surgeon to consistently improve patient outcomes with reduced refractive error... **by 300% in some cases.**

0.25 Diopter Increments from +18.0 to +25.0  
0.125 Diopter Tolerance from lens to lens

